Validation report form for renewal of crediting period for GS project activities

BASIC INFORMATION	
Title and GS reference number of the project activity	AY-YILDIZ 15 MW WPP GS 634
Number and duration of the next crediting period	3rd Crediting period. Duration: 23/11/2024- 22/11/2031
Version number of the validation report	03
Completion date of the validation report	17/04/2025
Version number of PDD to which this report applies	Version 04, dated 09/04/2025
Project participants	1 - Akenerji Elektrik Üretim A.Ş. 2 - Life İklim ve Enerji Ltd. Şti.
Host Country	Türkiye
Applied methodologies and standardized baselines	ACM0002 – Grid-connected electricity generation from renewable sources (version 22.0)
Mandatory sectoral scopes	01
Conditional sectoral scopes, if applicable	N/A
Estimated amount of annual average GHG emission reductions or GHG removals by sinks in the next crediting period	63,876
Name of VVB	Carbon Check India (Private) Limited.
Name, position and signature of the approver of the validation report	Amit Anand, CEO

SECTION A. Executive summary

>> **Purpose and general description of the project:**

The project activity is a greenfield grid connected wind power plant with a total installed capacity of 28.2 MWm/MWe. The plant WPP is located within the boundaries of Bandırma District of Balıkesir province of Türkiye. The legal owner of the proposed project is Akenerji Elektrik Üretim A.Ş. The entire electricity generated by the Wind power plant will be fed into the Türkiye National Grid without any Greenhouse Gas (GHG) emissions. The operational lifetime of the project is 25 years. Total expected generation has increased from 51.32 GWh to 98.7 GWh after extension. With this extension, expected total emission reduction is calculated as 63,876 tCO2e per year and 447,132 tCO2e throughout the crediting period. This leads to reduction of coal consumption to produce the electricity as well as the harmful GHG emissions. This contributes to SDG 13. In addition to the reduction of GHG emissions, the project intends to positively contribute to SDG goals 7 and 8.

Scope of Validation

The validation scope is to review the updated GS-PDD /01/ against the GS principles and requirements/B01/ and GS Validation and Verification standard version 1.0 /B03/. Validation of the renewal of crediting period is a requirement and it is seen as necessary to provide assurance about:

(a) Changes in the Project as related to the GS General Eligibility Criteria
(b) Incorporation of any relevant updates to the Gold Standard Requirements
(c) Re-definition of Baseline Scenario and any impact of change on the Eligibility Principles, Criteria and Requirements
(d) Any Gold Standard activity, product, and methodology-specific Requirements
(e) Demonstration of Ongoing Financial Need
(f) The impact of new relevant national and/or sectoral policies and circumstances on the baseline;
(g) The correctness of the application of an approved baseline methodology for the determination of the continued validity of the baseline or its update, and the estimation of emission reductions for the applicable crediting period.

Validation process

Validation is conducted using CCIPL's procedures in line with the GS Principles and Requirements /B01/ and applying standard auditing techniques. The validation assessment involved a document review of relevant documentation, the interview and remote audit assessment and reporting. Validation is not meant to provide any consultancy toward the project participants. However, stated request for clarifications and/or corrective actions may have provided input for improvement of the project activity.

Conclusion

Carbon Check India Pvt. Ltd. (CCIPL) appointed by Akenerji Elektrik Üretim A.Ş and has performed the validation of the renewal of crediting period of the GS project (GS 634) 'AY-YILDIZ 15 MW WPP, with regard to the relevant GS principles and requirements.

Carbon check (India) Private Ltd. Concludes the validation with positive opinion that the GS project (GS 634) 'Akenerji Elektrik Üretim A.Ş.as described in the updated PDD Version 04, dated 09/04/2025/01/, meets all relevant GS requirements and principles and GS Validation and Verification standard version 1.0 /B03/, and correctly applied the methodology ACM0002: Grid-connected electricity generation from renewable sources (Version 22.0)./B02/

Therefore, CCIPL recommends to GS4GG for Design certification renewal of the Project Activity.

SECTION B. Validation team, technical reviewer and approver

B.1. Validation team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g., name of central or other office of VVB or outsourced entity)	Involvement in			
						Desk/document review	On-site inspection	Interview(s)	Validation findings
1.	Team Leader/ Validator/Technical expert	IR	Chaudhary	Aparna[1]	Carbon Check India (Private) Limited	√		√	√
2	Local Expert	ER	Cinar	Hatice	Carbon Check India (Private) Limited	-	√	√	-
3	Team Leader/ Validator/Technical expert	IR	A L	Hariprasath	Carbon Check India (Private) Limited	√			√
4	Assessor	IR	Bijani	Vishal	Carbon Check India (Private) Limited	√			√

B.2. Technical reviewer and approver of the validation report for RCP

No.	Role	Type of resource	Last name	First name	Affiliation (e.g., name of central or other office of VVB outsourced entity)
1.	Technical reviewer	IR	C	Indumathi	CCIPL
2.	Approver	IR	Anand	Amit	CCIPL

SECTION C. Means of validation

C.1. Desk/document review

>> The updated GS PDD Version 04 dated 09/04/2025/01/, in particular the applicability of the methodology, the baseline determination, the emission reductions calculation /02/, the sustainability indicators, proposed design change and impacts on additionality were assessed as part of the validation. All documents reviewed or referenced during the validation are listed in Appendix 4.

[1] Last working day till 11/02/2025

C.2. On- site inspection

A.1. The VVB team has conducted the remote audit inspection. Furthermore, VVB has considered the Site Visit and Remote Audit Requirements /B05/ and Procedures, version 2.0 /B08/ for conducting remote audit in accordance with the requirements stated in §3.2.1 /B08/ which states that "A physical site visit by VVB is not mandatory at the validation (Design Certification or Design Certification Renewal) of a project." Thus, VVB conducted the remote audit.

Duration of remote audit: 24/10/2024				
No.	**Topic covered during remote audit**	**Location**	**Date**	**Team Member**
1.	Project activity, technical specifications, operational status	Remotely	24/10/2024	Aparna Chaudhary and Hatice CInar
2.	Baseline Scenario			
3.	Project Boundary, Applicability of methodology			
4.	Monitoring plan, monitoring, and measuring systems			
5.	Data management and reporting, QA/QC systems			

C.3. Interviews

No.	Interviewee		Date	Subject	Team member
	Names	Affiliation			
01.	Mertcan Ogul	A.K energi	24/10/2024	- Confirmation of technical specifications of the solar plant and monitoring meters - Baseline scenario - Project boundary - Applicability of the methodology - Revised grid emission factor calculation - Monitoring plan Data management and reporting, QA/QC systems - Monitoring / measuring systems - Metering guidelines,	Aparna Chaudhary and Hatice CInar
02.	Asli Ozcan	A.K energi	24/10/2024		
03.	Husniye Fulya Bilen	Plant manager	24/10/2024		
04.	Ozlem Palabiyik	A.K energy	24/10/2024		
05.	Erdem Erkin Dede	A.K energy	24/10/2024		

				Meter specifications – Accuracy, make - Calibration requirements • – procedure, frequency	
06.	Kemal Eryılmaz	Muhtar of Edincik village	24/10/2024	Discussion on ongoing feedback & input and grievance mechanism	
07.	Hakan Lorcu	Local people, dealing with olive farming	24/10/2024		
08.	Nazile Özcan	Local stakeholder	24/10/2024		
09.	İcabiye Doğan	Local stakeholders	24/10/2024		

C.4. Sampling approach

>> NA

C.5. Clarification requests (CLs), corrective action requests (CARs) and forward action requests (FARs) raised

The VVB has raised 02 clarifications, and 07 corrective action requests and successfully resolved by PP. No FAR has been raised during the design certification validation.

SECTION D. Validation findings

D.1. Compliance with PDD form

Means of validation	Comparing the PDD /01/ with the PDD template provided by GS.
Findings	-
Conclusion	The validation team, through means of document review and interviews, determines the description in the Project Activity titled "GS:634: "AY-YILDIZ 15 MW WPP", as described in the PDD /01/, and correctly applies the baseline and monitoring methodology "Grid-connected electricity generation from renewable sources (Version 22.0)" /B02/ and requirements of GS4GG Validation and Verification Standard Version 1.0 /B03/ and GS4GG Principals and Requirements version 1.2. /B01/. CCIPL confirms that the updated PDD version 04 dated 09/04/2025/01/ has been prepared using GS PDD template version 1.5 (dated 29/06/2023) which is the latest available template and has been completed with relevant information as per the template requirements.

D.2. General Description of the Project Activity

Means of validation	DR, Interview
Findings	CAR 02,CAR 03 and CAR 04 were raised in the section and is successfully resolved by the PP. Please refer Appendix 5 for further details.
Conclusion	The description of the project activity contained in the PDD /01/ is transparent, detailed and provides a clear overview of the project. Its content was confirmed by means of document review /01/ and interviews to validate the accuracy and completeness of the project description. The purpose of the project is to generate electricity using renewable energy from AY-YILDIZ 15 MW WPP and export to the Turkish National Power Grid. The power plant is located within the boundaries of Bandırma District of Balıkesir province of Turkey, with a total capacity of 28.2 MW and supply the electricity to the Turkish National Grid without any GHG emissions. The operational lifetime of the project is 25 years in accordance with the Option c of Tool 10 /B07-c/. The project activity is currently in Turkey, the electricity supplied by the grid is relatively carbon demanding, with a combined margin emission factor of 0.6472 tCO2/MWh. Since wind energy is clean energy, project activity does not involve any

	fossil fuel firing and hence no greenhouse gases are involved in the project activity. Estimated electricity generation by the project activity is 98.7 GWh per annum. The electricity generation will result in a total emission reduction of 63,876 tCO2e per year and 447,132 tCO2e throughout the crediting period. The legal owner of the proposed project is Akenerji Elektrik Üretim A.Ş. which was verified from Generation licence/08/ submitted to VVB, that Akenerji Elektrik Üretim A.Ş.is the project participant and Life İklim ve Enerji Ltd. Şti.is project developer. The Project Activity involves use of methodology "ACM0002: Grid-connected electricity generation from renewable sources'' (Version 22.0) /B02/. The baseline scenario is that the "electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the TOOL07" The same complies with the applied methodology /B02/. The project is expected to generate and feed GHG free electricity to the connected to Turkish National Power Grid/08/. This was verified during the remote audit and the grid connection agreement/07/ From the desk review of PDD /01/ and interviews of the PP representatives, it is revealed that this Project does not involve any ODA funding. Thus, the validation team considers no ODA funding has been involved under this Project. Based on assessment above, CCIPL confirms that the description of the proposed GS PA in the PDD /01/ is accurate and complete and it provides an understanding of the PA, and the project is in line with the applied methodology /B02/ and GS4GG requirements /B01/ /B03/. CCIPL hereby confirms that the selected methodology has been previously approved by the CDM Executive Board, and is applicable to the Project, which complies with all the applicability conditions therein and the selected version is valid at the time of submission of the proposed project activity for renewal of crediting period. It is also confirmed that the methodology is correctly applied by comparing it with the actual text of the applicable version of the methodology and there is no deviation from the selected methodology.

D.3. Eligibility criteria as per the GS Principles and Requirements

No.	Eligibility criterion – Category/Required condition	Justification	VVB Assessment
1	Types of Project – Eligible projects shall include physical action/implementation on the ground. i. Pre-identified eligible project types are mentioned in the	i. The project type is power generation using wind energy, an eligible project type per 2.1.2 a) and 2.1.2 b) of the Eligible Project Types under Renewable Energy Activity Requirements.	The project activity includes the construction and operation of a wind power plant that generate electricity through wind energy. The project is a wind power project. There is no change regarding the type of project during this renewal of the crediting period. This is in line with section 2 of the Renewable Energy Activity Requirements, version 1.3/B04/.

	paragraph 2| above	ii. . iii. The project is automatically eligible as per “GS Activity Requirements”. iv. Ther project is an approved project type as per “GS Activity Requirements” and does not require approval from Gold Standard. v. • Wind power is an approved project type and does not require approval from Gold Standard . vi. This project activity is not associated with geo-engineering or energy generated from fossil fuel or nuclear, fossil fuel switch. Also, the project activity does not support, enhance or prolong such energy generation. vii. a. Not applicable The Project is not registered with any other schemes. . viii. The proposed project doesn’t use Suppressed Demand Baseline. ix. The proposed project will claim only GS-VER for the MWh supplied to the national grid.	

2.	**Location of project**	The Project is located in Türkiye, which is not located in an HCV area. The location of the project is given under Section A.2 of this report. For this renewal of crediting period, there is no change in the location of the project.	The project is located in Türkiye, which is not located in an HCV area. The location of the project is given under Section A.2 of the PD. For this renewal of crediting period, there is no change in the location of the project and the same was confirmed by the PP during remote interview and by checking the coordinated if plant virtually during remote audit.
3.	**Project Area, Project Boundary and Scale**	The project is a large-scale project. For this renewal of crediting period, there is no change in the scale of the project	There is no change in the capacity of the project and as it is 3rd crediting period there is no change in scale of the project. The capacity of the project is checked by the registered PD, interview with the PPs and by cross checking the generation licence. /08/
4	**Host Country Requirements**	There are no additional laws that came into force that have an impact on the project activity, and the project activity is still in line with the available law and regulations. The project activity complies with applicable Türkiye's laws and environmental, ecological and social regulations, including the law on investment, the law on environmental protection, the electricity law, the labour code, the law on gender equality, the land law.	VVB has confirmed that there is no additional laws that came into force that have an impact on the project activity, and the project activity is still in line with the available law and regulations by cross checking the web links for the turkey laws and regulations with the help of local expert and by interviewing the PP.
5	**Contact Details**	This information has been given under Appendix 2 in this PDD. There is no change regarding information about the contact details of the project.	There is no change in the contact details of the PP. The contact details have been provided in the Appendix 2 of the PDD.
6	**Legal Ownership**	This information has been given in PDD. The Legal Ownership specified has not changed from the last crediting period.	The legal ownership has not been changed and the same was confirmed by PP. Moreover, VVB has cross checked the generation licence/08/ and the registered PD to confirm the same.
7	**Other Rights**	This information has been given in PDD. The legal rights specified in the second crediting period have not changed after the crediting period renewal process. Akenerji Elektrik Üretim A.Ş. has the legal rights for the VER credits	The legal rights are same as registered PD for CP 2 and the Akenerji Elektrik Üretim A.Ş. has the legal rights for the VER credits that will be issued under Gold Standard.

		that will be issued under Gold Standard.	
8	**Official Development Assistance (ODA) Declaration**	A.2. Project does not use any ODA or government incentive. A.3. The emissions reduction calculations are based on two main parameters: the energy produced and the grid emission factor. The project baseline is still the "ACM0002 "Grid-connected electricity generation from renewable sources" Version 22.0. The project activity is still in line with the second crediting period. There will be no changes to the Eligibility Principles, Criteria and Requirements during this new crediting period.	No public funds or ODA is involved in this project activity

D.4. Application of Methodology and standardized baselines

Means of validation	DR, Interview
Findings	CAR 03 was raised in the section and is successfully resolved by the PP. Please refer Appendix 5 for further details.
Conclusion	The project applied the approved methodology ACM0002 - Grid-connected electricity generation from renewable sources (version 22.0) /B02/. The applicability conditions of the methodology are discussed below:

Applicability	Justification	VVB Assessment
This methodology is applicable to grid-connected renewable energy power generation project activities that: (a) Install a Greenfield power plant; (b) Involve a capacity addition to (an) existing plant(s); (c) Involve a retrofit of (an) existing operating plant(s)/unit(s);	Only condition "(a)" is applicable as the project activity involves the installation of a Greenfield power plant.	The VVB confirms that the project activity is a renewable energy wind power project, which meets the applicability criteria under option 1 (a), "Install a Greenfield power plant." Therefore, the project activity complies with the given applicability criteria and there is no change in the current monitoring period. The same is confirmed by cross checking the EPC

	(d) Involve a rehabilitation of (an) existing plant(s)/unit(s); or (e) Involve a replacement of (an) existing plant(s)/unit(s); or (f) Install a Greenfield power plant together with a grid-connected Greenfield pumped storage power plant. The greenfield power plant may be directly connected to the PSP or connected to the PSP through the grid.		contract/04/, and generation license/08/.
	The methodology is applicable under the following conditions: a) Hydro power plant/unit with or without reservoir, wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit; b) In the case of capacity additions, retrofits, rehabilitations or replacements (except for wind, solar, wave or tidal power capacity addition projects) the existing plant/unit started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the implementation of the project activity; c) In case of Greenfield project activities applicable under paragraph 5 (a) above, the project participants shall demonstrate that the BESS was an integral part of the design of the renewable energy project activity (e.g. by referring to feasibility	This greenfield wind farm is a wind power plant/unit, satisfying condition “a”. Conditions “b” and “c” do not apply to the project as it is a greenfield project. Condition “d” is not applicable since there is no BESS.	Condition a, b and c is not applicable as the project is a greenfield wind farm project and there is no change in the current crediting period. Condition d is not applicable as there is no BESS

	studies or investment decision documents); d) The BESS should be charged with electricity generated from the associated renewable energy power plant(s). Only during exigencies may the BESS be charged with electricity from the grid or a fossil fuel electricity generator. In such cases, the corresponding GHG emissions shall be accounted for as project emissions following the requirements under section 5.4.4 below. The charging using the grid or using fossil fuel electricity generator should not amount to more than 2 per cent of the electricity generated by the project renewable energy plant during a monitoring period. During the time periods (e.g. week(s), months(s)) when the BESS consumes more than 2 per cent of the electricity for charging, the project participant shall not be entitled to issuance of the certified emission reductions for the concerned periods of the monitoring period. (a)		
	In case the project activity involves the integration of a BESS, the methodology is applicable to grid-connected renewable energy project activities that: (a) Integrate BESS with a Greenfield power plant; (b) Integrate a BESS together with implementing a capacity addition to (an) existing solar photovoltaic1 or	As there is no Battery Energy Storage System (BESS) integration, this condition is not applicable.	The condition is not applicable as there is no BESS.

	wind power plant(s)/unit(s); (c) Integrate a BESS to (an) existing solar photovoltaic or wind power plant(s)/unit(s) without implementing any other changes to the existing plant(s); (d) Integrate a BESS together with implementing a retrofit of (an) existing solar photovoltaic or wind power plant(s)/unit(s)		
	In case of hydro power plants, one of the following conditions shall apply: a) The project activity is implemented in existing single or multiple reservoirs, with no change in the volume of any of the reservoirs; or b) The project activity is implemented in existing single or multiple reservoirs, where the volume of the reservoir(s) is increased and the power density, calculated using equation (7), is greater than 4 W/m2; or c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or	This condition applies to hydro power plants only and is not relevant to the project activity.	This project is a wind power project and not a hydro project thus conditions does not applicable here.

	d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the reservoirs, calculated using equation (7), is lower than or equal to 4 W/m2, all of the following conditions shall apply: i) The power density calculated using the total installed capacity of the integrated project, as per equation (8), is greater than 4 W/$m^{2;}$ ii) Water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity; iii) Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m^2 shall be: a)Lower than or equal to 15 MW; and b) Less than 10 per cent of the total installed capacity of integrated hydro power project.		

	In the case of integrated hydro power projects, project participants shall: a) Demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project; or b) Provide an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs. The purpose of water balance is to demonstrate the requirement of specific combination of reservoirs constructed under CDM project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability in different seasons to optimize the water flow at the inlet of power units. Therefore, this water balance will take into account seasonal flows from river, tributaries (if any), and rainfall for minimum of five years prior to the implementation of the CDM project activity.	This condition applies to integrated hydro power projects, which is not applicable to the project, which is a 15 MW greenfield wind farm.	This project is a wind power project thus this condition is not applicable here.
	The methodology is not applicable to: a) Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site; b) Biomass fired power plants/units.	The project does not involve switching from fossil fuels to renewable energy sources at the project site (a), and it is not a biomass fired power plant/unit (b). Thus, the project complies with the non-applicability conditions of this article.	The project does not involve any switching of fuel and thus this condition is not applicable here

	In the case of retrofits, rehabilitation, replacements, or capacity additions, this methodology is only applicable if the most plausible baseline scenario, as a result of the identification of baseline scenario, is "the continuation of the current situation, that is to use the power generation equipment that was already in use prior to the implementation of the project activity and undertaking business as usual maintenance".	This condition is relevant for retrofits, rehabilitations, replacements, or capacity additions. As the project is a greenfield wind farm, the article does not apply.	This condition is not applicable here as the project is a greenfield wind power plant.
	CCIPL hereby confirms that the selected methodology /B02/ is applicable to the Project, which complies with all the applicability conditions therein and the selected version i,e. 22.0 is valid at the time of submission of the proposed project activity for renewal of crediting period. It is also confirmed that the methodology is correctly applied by comparing it with the actual text of the applicable version of the methodology and there is no deviation from the selected methodology.		

D.5. Validity of original baseline scenario or its update

Means of validation	DR,I
Findings	--
Conclusion	As per para 5.1.47 of Gold Standard for global goals principles & requirement '*re-definition of Baseline Scenario*' is required at design renewal. The project activity involves the installation of greenfield grid connect wind power plant. The baseline scenario of the project is to provide an equal amount of electricity provided by the national grid where the proposed project is also connected. Turkish Electricity Corporation is the sole operator of the Turkish national electricity grid where all the power plants in Turkiye are physically connected, and this project activity is not outside of that system. The Project Participant (PP) has updated the emission factor values to the latest as the ones calculated in the initial project description document are now outdated. With the Ministry of Energy and Natural Resources of Türkiye publishing official emission factor values in factsheets, it is necessary to adopt these updated values and revise the baseline accordingly. Furthermore, in line with ACM0002, the baseline scenario must be updated by applying Tool 11, which outlines two steps for the update process. The PP has thoroughly assessed all steps of the tool, and the same has been cross verified by the VVB. The tool consists of two steps. The first step provides an approach to evaluate whether the current baseline is still valid for the next crediting period. The second

	step provides an approach to update the baseline in case the current baseline is not valid anymore for the next crediting period. **Step 1**: Assess the validity of the current baseline for the next crediting period The validity of the current baseline is assessed using the following sub-steps: **Step 1.1**: Assess compliance of the current baseline with relevant mandatory national and/or sectoral policies As per the registered PDD, the baseline scenario is defined as the electricity supplied to the grid in the absence of the project activity, which would otherwise be generated by grid-connected fossil fuel power plants or new fossil fuel-based generation sources. The Project Developer has stated that the project remains in compliance with the current legal and regulatory framework, including the Electricity Market Law No. 6446 (dated 30/03/2013) and the Law on Utilization of Renewable Energy Resources No. 5346 (dated 18/05/2005). These laws remain unchanged, and no new mandatory national or sectoral policies have been introduced that would impact the baseline scenario. The current baseline complies with applicable national and sectoral policies and remains valid for the next crediting period. **Step 1.2**: Assess the impact of circumstances. The project developer has stated that while the emission factors for grid electricity have been updated using the latest available official data (2021), there have been no major deviations or market changes during the first crediting period that would materially affect the baseline. Therefore, this step is not applicable for this project. **Step 1.3**: Assess whether the continuation of use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested. The project developer has provided evidence that Türkiye remains a fossil fuel-dependent, energy-importing country. Due to increasing energy demand (projected to reach 395.9 GWh by 2030), continued reliance on fossil fuel power generation is expected. In the absence of the project, the energy would most likely be supplied by newly added fossil-based power plants. The continuation of fossil-fuel-based electricity generation is the most likely scenario in the absence of the project. Therefore, this step is not applicable for this project. **Step 1.4**: Assessment of the validity of the data and parameter. The emission factor has been updated using the most recent values published by Türkiye's official sources, reflecting data for the year 2021. The project developer confirms that no other changes in parameters or assumptions have occurred, and the emission factor update has been made in accordance with the applicable methodology version and guidance. The emission factor has been correctly updated using the latest available national data. The data and parameters are valid for the renewal period **Step 2:** Update the current baseline and the data and parameters. **Step 2.1**: Update the current baseline. As per ACM0002 Version 22.0, the baseline scenario continues to be defined as "The electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations." The project participant has not proposed a deviation from the originally approved baseline scenario. The baseline scenario remains valid and unchanged for the second crediting period. **Step 2.2:** Update the data and parameters.

	The grid emission factor has been updated using the most recent data from Türkiye's Ministry of Energy and Natural Resources. This ensures alignment with the methodology and provides a conservative estimation of baseline emissions. The required update of the emission factor has been conducted in compliance with the latest methodological and official data requirements. Therefore, VVB has confirmed that the original baseline scenario is valid, and assessment is in accordance with the methodological tool "Tool for the assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period v3.0.1 /B07-a/. PP has explained the complete baseline scenario as per the ACM0002 Version 22 in Section 5.2.1 paragraph 27. CCIPL concludes that the original baseline is valid, and assessment is done as per methodological tool 'Tool for the assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period v3.0.1' /B07-a/. The assessment meets VVS Standard version 01 /B03/ and GS principle and requirements paragraph 5.1.47. /B01/

D.6. Estimated emission reductions or net anthropogenic removals

Means of validation

As per the methodology, the emission reductions are verified and credited by comparing the emissions for a given project scenario to the emissions for the applicable baseline scenario. The overall GHG reductions achieved by the project activity in year y are calculated as follows:

The equation shown below is the one that corresponds to Method 1 chosen:

$$\boldsymbol{BE_y = EG_{Pj,y} \times EF_{grid,CM,y}} \quad (11)$$

$$\boldsymbol{ER_y = BE_y - PE_y} \quad (17)$$

Where:

BE = Baseline emission

EG = Power generation

EF = Grid emission factor

ER = Emission reduction

PE = Project emission

Data and Parameters fixed ex-ante

Data and Parameter	Value	Assessment
$EF_{grid,OM,y}$	$0.7279\ t\ CO_2/MWh$	The data has been obtained from Turkish Energy and Natural Resources Ministry /B09/.
$EF_{grid,BM,y}$	$0.405\ t\ CO_2\ /MWh$	The data has been obtained from the registered PDD for the 2nd crediting period /04-2/ of the project activity as per para 72 of the tool 07 v7.0 /B07-2/.
$EF_{grid,CM,y}$	$0.6472\ t\ CO_2\ /MWh$	The data has been calculated combined margin emissions factor is calculated as per Tool 7, paragraph 85 and 86 (a) /B07-b/.

Findings	CAR 04, CAR 05,CAR 06,CL 01, and CL 02 were raised in the section and is successfully resolved by the PP. Please refer Appendix 5 for further details.
Conclusion	CCIPL confirms that the PDD correctly lists assumption and data used by the PD for estimating emission reduction including their references and sources. Source of data and assumptions are correctly quoted and interpreted in the PDD. All values used in the PDD are considered reasonable in the context of the proposed GS project activity. The baseline methodology and corresponding tools have been correctly applied to calculate project, baseline and leakage emissions, and emission reductions. All estimates of the baseline emissions can be replicated using the data and parameter values provided in the PDD

D.7. Validity of monitoring plan

Means of validation

The monitoring plan in the updated PDD is consistent with the latest methodology, ACM0002 v 22./B02/ Validation team confirmed from the document review that the list of parameters including the means of monitoring is described in accordance with the applied methodology.

Monitoring plan is described in section B.7.2 of the PDD. Following parameters will be monitored for this project activity:

The monitoring plan is consistent with the latest methodology and hence valid for the next crediting period. CCIPL is of the opinion that monitoring plan is feasible within the project design.

Data and Parameters to be monitored:

Data and Parameter	Value	Assessment
ERy - Annual emission reduction	63,876 tCO_2e/year	The project will generate renewable energy, which will displace part of the electricity otherwise supplied by fossil fuel fired power plants, thereby the emission reductions are achieved by this project. The monitoring frequency for this parameter is once for each monitoring period. The value 63,876 tCO_2e/year has calculated by net electricity generated by the project activity and combined margin emission factor of electricity system. VVB has verified the calculation by means of desk review /02/ and it's deemed appropriate with the methodology ACM0002 (Version 22.0) /B02/
$EG_{facility,y}$	98.7 GWh.	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y. The monitoring frequency for this parameter is continuous measurement and monthly recording. For this crediting period the

			estimated value of electricity generation is 98.7 GWh.76,842 MWh/yr. Generation data are being recorded continuously by two metering energy meters whose serial numbers are 51255642 (main meter) and 51222783 (auxiliary meter). These records provide the data for the monthly invoicing to TEİAŞ. Generation is being recorded via remote reading system. The quantity of electricity supplied by the project plant/unit to the grid (UEVM) and the quantity of electricity delivered to the project plant/unit from the grid (UECM) is being measured. Net generation is being calculated via subtracting energy delivered by the project activity to the grid and internal consumption by the project activity.. VVB has crosschecked the same by means of the document review (downloaded electricity meter reading, invoice bill) and remote audit and it's deemed acceptable.

The monitoring plan presented in the PDD /01/ comply with the requirements of the applied monitoring methodology /B02/. Validation team of CCIPL has verified all parameters in the monitoring plan against the requirements of the applied methodology.

The procedures were reviewed by the validation team through a document review /01/ and interviews with relevant stakeholders. The data provided enabled the validation team to confirm that the proposed monitoring plan is feasible within of the project design. The relevant points of monitoring plan have been discussed with the PP.
During the desk review /01/ and remote audit VVB has confirmed that all the meters and the calibration of the meters will be done in every three years and calibration report will be available during verification.
The plant will do an internal audit every year to ensure the parameters are being monitored as per PDD. The staffs of the plant will be trained during this crediting period.

Findings	--
Conclusion	CCIPL confirms that the monitoring plan included in the updated PDD is valid as per the applied methodology /B02/ and conforms the registered PDD/04/.

D.8. Validity of the sustainability monitoring plan

Means of validation

Apart from monitoring relevant parameter under SDG 13, parameters pertaining to SDG 7 and SDG 8 are consistent with registered PDD /04/. The monitoring plan of those parameters are discussed below:

SDG Indicator	Parameter	Validation
SDG 7- Affordable and Clean Energy (Indicator 7.2.1: Renewable energy share in	**$EG_{facility,y}$**	EGfacility,y 98.7 GWh.Quantity of net electricity generation supplied by the project plant/unit to the grid in year y.

	the total final energy consumption)		The monitoring frequency for this parameter is continuous measurement and monthly recording. For this crediting period the estimated value of electricity generation is 98.7 GWh.76,842 MWh/yr. Generation data are being recorded continuously by two metering energy meters whose serial numbers are 51255642 (main meter) and 51222783 (auxiliary meter). These records provide the data for the monthly invoicing to TEİAŞ. Generation is being recorded via remote reading system. The quantity of electricity supplied by the project plant/unit to the grid (UEVM) and the quantity of electricity delivered to the project plant/unit from the grid (UECM) is being measured. Net generation is being calculated via subtracting energy delivered by the project activity to the grid and internal consumption by the project activity.. VVB has crosschecked the same by means of the document review (downloaded electricity meter reading, invoice bill) and remote audit and it's deemed acceptable. .
	SDG 8- Decent Work and Economic Growth (Indicator 8.5.1 – Average hourly earnings of female and male employees, by occupation, age and persons with disabilities)	Number of employments	Number of people permanently working for the operation of the project will be checked from the Social Security System (SGK) records that will be provided by the PP. The target valued by the PP is 5.
Findings			
Conclusion	CCIPL confirms that the sustainable development monitoring plan included in the updated PDD is consistent with GS principles and requirements and feasible within the project design.		

D.9. Crediting period

Means of validation	DR,I
Findings	--
Conclusion	The start date for the Project Activity is 01/03/2009 as stated in the PDD /01/ is the date of EPC agreement signed/04/. The definition of the project start date is in compliance with section 4.1.39 of the GS4GG Principles & Requirements version 1.2 /B01/ and § 7.6 of GS validation and verification standard version 1.0/ B03/

	As per para 5.1.45 of GS4GG principles and requirement /06/, to maintain Gold Standard Certified Project status beyond five years, a Project must undergo Design Certification Renewal. The VVB has reviewed the registered PDD for the second crediting period of the project activity, based on review of the project documents and with reference to section 5.1.45 of Gold Standard for the Global Goals Principles & Requirements version 1.2 /B01/ which states that "review of the Design Certification Renewal may complete after the last date of current crediting period. In this case, the renewal date shall be the first day after the end date of the current certification cycle", the project is eligible for third crediting period and the period is clearly defined. Furthermore, start date of the Project Activity 1st crediting period is 01/09/2009-31/08/2016 and 2nd crediting period is 23/11/2017- 22/11/2024. And 3rd crediting period is 23/11/2024- 22/11/2031 with renewal period of 7 years. The validation team confirms that the crediting period applied is in accordance with the GS4GG Principles and Requirements, version 1.2 /B01/ and GS Validation and Verification standard version 1.0 /B03/.

D.10. Project Participants

Means of validation	The project developer is Life İklim ve Enerji Ltd. Şti. This is as per GS registry details of the project. The same is found mentioned in the updated PDD, PD has provided.
Findings	--
Conclusion	CCIPL confirms that the project participants of the project activity are listed in the updated PDD, and this information is consistent with the information provided in the section that contains the contact information for project participants.

D.12 Specific GS scope on design certification renewal

Means of validation	As per paragraph 5.1.47 of GS4GG principle and requirement, the 'Design Certification Renewal scope is assessed as below: a) Changes in the Project as related to the General Eligibility Criteria -There is no change in the project which may impact the project eligibility. The project still falls under large-scale category and implemented within the same geographical boundary as the registered PDD/04/. b) Incorporation of any relevant updates to the Gold Standard Requirements - There is no relevant update found to be incorporated for the project during the second crediting period. c) Re-definition of baseline scenario and any impact of change on the eligibility principles, criteria and requirements - PP has assessed the baseline following UNFCCC guideline and the GS Principle and requirements /B01/ and confirms the existing baseline is still valid. The Project Participant (PP) has updated the emission factor values as the ones calculated in the initial project description document are now outdated. With the Ministry of Energy and Natural Resources of Türkiye publishing official emission factor values in factsheets, it is necessary to adopt these updated values and revise the baseline accordingly. Furthermore, in line with ACM0002, the baseline scenario must be updated by applying Tool 11, which outlines two steps for the update process. The PP has thoroughly assessed all steps of the tool, and the same has been cross-verified by the VVB. CCIPL concludes that the original baseline is updated with the valid emission factor as mentioned in section B.4 of the PDD valid, and assessment is done as per

	methodological tool 'Tool for the assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period v3.0.1' /B07-a/. The assessment meets VVS Standard version 01 /B03/ and GS principle and requirements paragraph 5.1.47. /B01/ PP has assessed the baseline following UNFCCC guideline and the GS Principle and requirements /B01/ and confirms the existing baseline is still valid. The grid emission factor has been updated in compliance with the Energy and Natural Resources Ministry's publication, which includes emission factor values calculated for the year 2020. VVB has cross checked the EF through the below link. https://enerji.gov.tr//Media/Dizin/EVCED/tr/%C3%87evreVe%C4%B0klim/%C4%B0klimDe%C4%9Fi%C5%9Fikli%C4%9Fi/TUESEmisyonFktr/Belgeler/TUESEF_Bilgi_Formu.pdf The emission factor PDF file has also been checked by the VVB. d) Any gold standard activity, product and methodology-specific requirement - The project meets GS renewal energy activity requirements although there is no specific requirement to be met during the renewal of the project. The applied methodology for claiming emission reductions is updated to its latest version/B02/ and conditions as per latest version is justified in the updated PDD /01/. The verifier acknowledges that the project activity has been consistently progressing within the voluntary carbon market, supported by regular validation and verification processes. The carbon revenue generated has been instrumental in covering the increasing operational, maintenance, and repair costs. However, it is evident that the project remains dependent on carbon revenue due to escalating system usage fees which has increased by 647% from January 2022 to December 2024 as checked from the "Commercial electricity distribution invoices" /11/ which increases the operational cost of the project, and other associated expenses, highlighting the ongoing necessity of this financial support for its sustainability. No change in design of the plant, the project would become more financially feasible for the PP to invest but will still be less than the nominal benchmark. Moreover, under section B.5.2 of the PDD/ 01/ PP has detailed the financial needs as per the GS4GG principles & requirements. This has been checked by VVB during the desk review and remote audit interviews.
Findings	--
Conclusion	CCIPL confirms that the project activity is within the required scope of GS principle and requirements which are applicable at design renewal.

D.13 Post-registration changes

Type of post-registration changes (PRCs)	Confirmation (Y/N)	Validation report for PRCs	
		Version	Completion date
Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents[2]	Not applicable	--	--
Corrections	Not applicable	--	--
Change to the start date of the crediting period	Not applicable	--	--
Inclusion of a monitoring plan	Not applicable	--	--
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied	Not applicable	--	--

[2] Other standards, methodologies, methodological tools and guidelines (to be) applied in accordance with the applied(selected) methodologies are collectively referred to as the other (applied) methodological regulatory documents).

methodologies, standardized baselines, or other methodological regulatory documents			
Changes to the project design	Not applicable	--	--
Changes specific to afforestation and reforestation project activities	Not applicable	--	--

D.14 Grievance Mechanism

Means of validation	As per para 4.1.34 of GS4GG principles and requirement /B01/, The Project shall have a formal input, feedback and grievance mechanism in place and the grievance mechanism has been discussed during the Stakeholder Consultations as per Stakeholder Consultation & Engagement Requirements. **Review of Grievance Records:** • VVB Ensure that all grievances are documented comprehensively. And the validation team could check for timely responses and resolutions process through interviews with the stakeholders.. **Stakeholder Feedback**: • Interview stakeholders to understand their experience with the grievance mechanism. Through interview with the stakeholder feel their grievances are addressed fairly and promptly. **Compliance with Standards**: • Verify alignment with relevant standards and guidelines, such as Section 10 of the Validation and Verification Standard V1.0. and also could verify the mechanism meets legal and regulatory requirements. **Monitoring and Reporting**: • VVB Ensure there is a process for monitoring the effectiveness of the grievance mechanism in line with the standard requirements. Based on review of the project documents and with reference to section 4.1.34 of Gold Standard for the Global Goals Principles & Requirements version 1.2 /B01/, the project consists of a continuous input/ grievance mechanism /06/ by receiving grievances in the project site.
Findings	--
Conclusion	CCIPL confirms that the project has grievance expression book located at the site office.

SECTION E. Internal quality control

>> The final validation report before being submitted to the client is subjected to an independent technical review to confirm that all validation activities has been completed according to the pertinent CCIPL's procedures. The technical review is performed by a technical reviewer qualified in accordance with the CCIPL's qualification procedure.

SECTION F. Validation opinion

>> Carbon Check (India) Private Ltd. (CCIPL) is performing the validation of design certification renewal of the Third crediting period of the GS project titled "AY-YILDIZ 15 MW WPP" in Turkiye" (GS project Id: GS 634). The proposed large–scale project activity will result in reductions of greenhouse gas (GHG) emissions that are real, measurable and give long-term benefits to the mitigation of climate change, as stated in the updated PDD. In the opinion of the validation team, the project meets all relevant GS4GG criteria and all relevant host country criteria

The validation was performed in accordance with latest GS4GG rule and requirements and UNFCCC criteria for the Clean Development Mechanism, latest version of GS Validation and Verification Standard and related Standards/Guidance and host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The review of the updated PDD and the subsequent follow-up interviews have provided validation team with sufficient evidence to determine the validity of the original baseline. The PDD correctly applies the latest version of the large-scale methodology ACM0002 - "Grid-connected electricity generation from renewable sources" version 22 and meets all relevant criteria therein. The monitoring arrangements described in the

monitoring plan are feasible within the project, and it is validation team's opinion that the project implementer is able to implement the monitoring plan and it is deemed likely that the forecasted emission reductions of 56,176 tCO_2e per year from the project during the Third crediting period will be achieved, given that the underlying assumptions do not change.

During the course of validation 07 CARs , 02 CL and 00 FAR were identified on initially submitted PDD. All raised CARs and CL have been successfully resolved by project proponent.

In summary, it is validation team's opinion that the project "AY-YILDIZ 15 MW WPP." (GS Reference number 634) meets all relevant GS4GG and UNFCCC requirements for the renewal of the crediting period. Hence CCIPL requests the renewal of the project activity for the third crediting period from 23/11/2024- 22/11/2031.

Appendix 1. Design Change Assessment

No design changes identified.

Appendix 2. Abbreviation

Abbreviations	Full texts
BE	Baseline Emissions
CAR	Corrective Action Request
CCIPL	Carbon Check (India) Pvt. Ltd.
CDM	Clean Development Mechanism
CDM M&P	Modalities and Procedures CDM
CDM-PCP	Clean Development Mechanism Project Cycle Procedure
CDM-PS	Clean Development Mechanism Project Standard
CDM-VVS	Clean Development Mechanism Validation and Verification Standard
CL	Clarification Request
CO_2	Carbon dioxide
CO_2e	Carbon dioxide equivalent
DR	Desk Review
EB	Executive Board
EPC	Engineering Procurement, and Construction
ER	Emission Reductions
ER	External Resources
FAR	Forward Action Request
GHG(s)	Greenhouse gas(es)
GS4GG	Gold Standard for Global Goals
GWP	Global Warming Potential
I	Interview
IPCC	Intergovernmental Panel on Climate Change
LDC	Least Developed Country
LoA	Letter of Approval
LSC	Local Stakeholder Consultation
MoV	Means of Validation
MP	Monitoring Plan
NGO	Non-governmental Organization
ODA	Official Development Assistance
PDD	Project Design Document
PE	Project Emission
PP(s)	Project Participant(s)
Ref.	Document Reference
SD	Sustainability Development
SDG	Sustainable Development Goals
SMP	Sustainability Monitoring Plan
SS(s)	Sectoral Scope(s)
UNFCCC	United Nations Framework Convention on Climate Change
VER	Voluntary Emission Reduction
VVB	Validation and Verification Body
VVS	Validation and Verification standard

Appendix 3. Competence of team members and technical reviewers

Carbon CHECK

Carbon Check (India) Private Limited

Certificate of Competency

Ms. Aparna Choudhary

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS (V7.0), ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

☒ Validator	☒ Verifier	☒ Team Leader	☒ Technical Expert
☐ Technical Reviewer	☐ Health Expert	☐ Gender Expert	☐ Plastic Waste Expert
☐ CCB Expert	☐ Legal Expert	☐ Financial Expert	☐ Environmental, Health and Safety financial matters
☒ SDG+	☒ Social no-harm(S+)	☒ Environment no-harm(E+)	
☒ Local Expert for India			

in the following Technical Areas:

☒ TA 1.1	☒ TA 1.2	☐ TA 2.1	☒ TA 3.1	☐ TA 4.1
☐ TA 4. n	☐ TA 5.1	☐ TA 5.2	☐ TA 7.1	☐ TA 8.1
☐ TA 9.1	☐ TA 9.2	☐ TA 10.1	☒ TA 13.1	☒ TA 13.2
☐ TA 14.1	☐ TA 15.1	☐ TA 16.1		

Issue Date

5th December 2023

Expiry Date

31st December 2024

Priya Suman

Ms. Priya Suman
Compliance Officer

Sanjay Agarwalla

Mr. Sanjay Kumar Agarwalla
Technical Director

Revision History of the document:

Revision date	Summary of changes
2022[1]	Annual revision
Jan 2023	Annual revision
Dec 2023	Change in the template due to revision in TA and function

CCIPL_FM 7.9 Certificate of Competency_V4.0_112023

[1] Please refer to previous version of FM 7.9 for the revision history

Carbon Check (India) Private Limited

Certificate of Competency

Mr. Hariprasath A L

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS, A 6.4 AS/ ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

☒ Validator	☒ Verifier	☒ Team Leader	☒ Technical Expert
☐ Technical Reviewer	☐ Validator/Verifier (Trainee)	☐ Gender Expert	☐ Plastic Waste Expert
☐ CCB Expert	☐ Legal Expert	☐ Financial Expert	☐ Environmental, Health and Safety financial matters
☐ SDG Expert	☐ Expert Social aspect	☐ Expert Environmental Aspect	☐ Health Expert
☒ Regional Expert for India		☒ FOEN Approved Technical Expert	☐ FOEN Approved Quality officer

in the following Technical Areas:

☐ TA 1.1	☒ TA 1.2	☐ TA 2.1	☒ TA 3.1	☐ TA 4.1
☐ TA 4. n	☐ TA 5.1	☐ TA 5.2	☐ TA 7.1	☐ TA 8.1
☐ TA 9.1	☐ TA 9.2	☐ TA 10.1	☐ TA 13.1	☒ TA 13.2
☐ TA 14.1	☐ TA 15.1	☐ TA 16.1		

Issue Date	Expiry Date
06th February 2025	31st December 2025

Vikash K. Singh

Mr. Vikash Kumar Singh
Director - Compliance

Revision History of the document:

Revision Date	Summary of changes
Jan 2025[1]	Revised as per latest organogram
Feb 2025	Revised to include FOEN requirements

CCIPL_FM 7.9 Certificate of Competency_V8.0_05022025

[1] Please refer to previous version of FM 7.9 for the revision history

Carbon CHECK

Carbon Check (India) Private Limited

Certificate of Competency

Mr. Vishal Bijani

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS, A 6.4 AS/ ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

☒ Validator	☒ Verifier	☐ Team Leader	☒ Technical Expert
☐ Technical Reviewer	☐ Validator/Verifier (Trainee)	☐ Gender Expert	☐ Plastic Waste Expert
☐ CCB Expert	☐ Legal Expert	☐ Financial Expert	☐ Environmental, Health and Safety financial matters
☐ SDG Expert	☐ Expert Social aspect	☐ Expert Environmental Aspect	☐ Health Expert
☒ Regional Expert for India		☐ FOEN Approved Technical Expert	☐ FOEN Approved Quality officer

in the following Technical Areas:

☐ TA 1.1	☒ TA 1.2	☐ TA 2.1	☒ TA 3.1	☐ TA 4.1
☐ TA 4. n	☐ TA 5.1	☐ TA 5.2	☐ TA 7.1	☐ TA 8.1
☐ TA 9.1	☐ TA 9.2	☐ TA 10.1	☐ TA 13.1	☐ TA 13.2
☐ TA 14.1	☐ TA 15.1	☐ TA 16.1		

Issue Date	Expiry Date
06th February 2025	31st December 2025

Vikash K. Singh

Mr. Vikash Kumar Singh
Director - Compliance

Revision History of the document:

Revision Date	Summary of changes
Jan 2025[1]	Revised as per latest organogram
Feb 2025	Revised to include FOEN requirements

CCIPL_FM 7.9 Certificate of Competency_V8.0_05022025

[1] Please refer to previous version of FM 7.9 for the revision history

Carbon CHECK

Carbon Check (India) Private Limited

Certificate of Competency

Ms. Hatice Cinar

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS (V7.0), ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

☐ Validator	☐ Verifier	☐ Team Leader	☐ Technical Expert
☐ Technical Reviewer	☐ Health Expert	☐ Gender Expert	☐ Plastic Waste Expert
☐ CCB Expert	☐ Legal Expert	☐ Financial Expert	☐ Environmental, Health and Safety financial matters
☐ SDG+	☐ Social no-harm(S+)	☐ Environment no-harm(E+)	
☒ Local Expert for Turkey			

in the following Technical Areas:

☐ TA 1.1	☐ TA 1.2	☐ TA 2.1	☐ TA 3.1	☐ TA 4.1
☐ TA 4. n	☐ TA 5.1	☐ TA 5.2	☐ TA 7.1	☐ TA 8.1
☐ TA 9.1	☐ TA 9.2	☐ TA 10.1	☐ TA 13.1	☐ TA 13.2
☐ TA 14.1	☐ TA 15.1	☐ TA 16.1		

Issue Date

1st April 2024

Expiry Date

31st March 2025

Priya Suman

Ms. Priya Suman
Compliance Officer

Sanjay Agarwalla

Mr. Sanjay Kumar Agarwalla
Technical Director

Revision History of the document:

Revision date	Summary of changes
Dec 2023	Template changes to include additional functions and TA
April 2024	Initial Adoption

CCIPL_FM 7.9 Certificate of Competency_V4.0_112023

[1] Please refer to previous version of FM 7.9 for the revision history

Carbon CHECK

Carbon Check (India) Private Limited

Certificate of Competency

Ms. Indumathi C

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS, A 6.4 AS/ ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

☒ Validator	☒ Verifier	☒ Team Leader	☒ Technical Expert
☒ Technical Reviewer	☐ Validator/Verifier (Trainee)	☐ Gender Expert	☒ Plastic Waste Expert
☐ CCB Expert	☐ Legal Expert	☒ Financial Expert	☐ Environmental, Health and Safety financial matters
☒ SDG Expert	☒ Expert Social aspect	☒ Expert Environmental Aspect	☐ Health Expert
☒ Regional Expert for India and Srilanka		☒ FOEN Approved Technical Expert	☐ FOEN Approved Quality officer

in the following Technical Areas:

☒ TA 1.1	☒ TA 1.2	☐ TA 2.1	☒ TA 3.1	☐ TA 4.1
☐ TA 4. n	☐ TA 5.1	☐ TA 5.2	☐ TA 7.1	☐ TA 8.1
☐ TA 9.1	☐ TA 9.2	☐ TA 10.1	☒ TA 13.1	☒ TA 13.2
☐ TA 14.1	☐ TA 15.1	☐ TA 16.1		

Issue Date	Expiry Date
06th February 2025	31st December 2025

Mr. Vikash Kumar Singh
Director - Compliance

Revision History of the document:

Revision Date	Summary of changes
Jan 2025[1]	Revised as per latest organogram
Feb 2025	Revised to include FOEN requirements

CCIPL_FM 7.9 Certificate of Competency_V8.0_05022025

[1] Please refer to previous version of FM 7.9 for the revision history

Appendix 4. Documents reviewed or referenced

No.	Author	Title	Provider
/01/	PP	a. GS PDD for the project 'AY-YILDIZ 15 MW WPP (Initial version 01) b. GS PDD for the project 'AY-YILDIZ 15 MW WPP version 02 dated 13/11/2024 c. GS PDD for the project 'AY-YILDIZ 15 MW WPP Version 04, dated 09/04/2025	PP
02/	PP	Emission reduction worksheet for the project activity 'AY-YILDIZ 15 MW WPP /01-a/	PP
		Emission reduction worksheet for the project activity 'AMI Khanh Hoa Solar' /01-b/	
/03/	PP	IRR sheet	PP
/04/	PP	Registered PDD for the project activity AY-YILDIZ 15 MW WPP 1. AY-YILDIZ 15 MW WPP V 5.1 Date: 31/05/2010 2. AY-YILDIZ 15 MW WPP V 12 Date: 30/05/2018	PP
/05/		Validation report for the project 'AY-YILDIZ 15 MW WPP	PP
/06/	PP	Grievance Book	PP
/07/	PP	Grid connection agreement between Central Electricity Corporation and AY-YILDIZ 15 MW WPP Energy Delivery Company dated	PP
/08/	PP	Generation Licence	PP
/09/	PP	Employment record	PP
/10/	UNFCCC	Nationally Determined Contribution (NDC) (Updated In 2022)	Publicly available
/11/	PP	• Commercial electricity distribution invoice from January 2022 to December 2024 • System usage fees sheet	PP
/B01/	Gold Standard	Gold Standard for the Global Goals Principles & Requirements	Publicly available
/B02/	UNFCCC	Large-scale methodology ''Grid-connected electricity generation from renewable sources (Version 21.0)''	Publicly available
/B03/	Gold Standard	GS4GG Validation and Verification Standard	Publicly available
/B04/	Gold Standard	Safeguarding-Principles-Requirements	Publicly available
/B05/	Gold Standard	Site-Visit-and-Remote-Audit-Requirements	Publicly available
/B06/	Gold Standard	Renewable-Energy-Acivity-Requierments	Publicly available
/B07/	UNFCCC	a. Tool 11: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period (version 3.0.1)Tool-11	Publicly available

		b. Tool07 – Tool to calculate the emission factor for an electricity system (version 07.0) c. Tool 10: Tool to determine the remaining lifetime of equipment (version 1.0)	
/B08/	Gold Standard	Project-Design-Document	Publicly available
/B09/	PP	Turkish Energy and Natural Resources Ministry's and PDF for the emission factor provided by PO	

Appendix 5. Clarification requests, corrective action requests and forward action requests

CAR from this validation

CAR ID	CAR01	**D.3**		**Date: 09/11/2024**
Description of CAR				
Under section A.1.1 of the PD PP is requested to cover list of all the points from the section 3 “GENERAL ELIGIBILITY CRITERIA “ of GS principal and requirements. PP is requested to provide the justification of all the points Separately				
Project participant response				**Date: 13/11/2024**
The eligibility criteria has been added and all points have been justified separately.				
Documentation provided by project participant				
Ay-Yıldız 15 MW_Revalidation_v2				
VVB assessment				**Date: 22/11/2024**
PP has added all the points from the GENERAL ELIGIBILITY CRITERIA “of GS principal and requirement under section A.1.1 of the PD. The same has been reviewed by the VVB. Thus the finding has been closed.				

CAR ID	CAR 02	**D.2**		**Date: 09/11/2024**
Description of CAR				
PP is requested to provide the evidence for the leagal ownership of the project.				
Project participant response				**Date: 13/11/2024**
Generation licenses of the project have been shared.				
Documentation provided by project participant				
Üretim Lisansı.pdf Revize Üretim Lisansı.pdf				
VVB assessment				**Date: 22/11/2024**
PP has shared the generation licence of the project with the VVB which confirms the ownership of the Akenerji Elektrik Üretim A.Ş. in the project. Thus the finding is closed.				

CAR ID	CAR 03	**D.2/D.4**		**Date: 09/11/2024**
Description of CAR				
Under section B.2 PP is requested to mention the version number of the methodology used.				
Project participant response				**Date: 13/11/2024**
Version number has been mentioned.				
Documentation provided by project participant				
Ay-Yıldız 15 MW_Revalidation_v2				
VVB assessment				**Date: 22/11/2024**
PP has added the version number of the methodology under section B.2 of the updated PD. Thus the finding has been closed.				

CAR ID	CAR 04	**D.2**		**Date: 09/11/2024**
Description of CAR				
section B.3 and B.4 needs to be mentioned as per the methodological requirement also Only English language should be used in the template.				
Project participant response				**Date: 13/11/2024**
Section B.3 and B.4 have been mentioned and revised accordingly.				
Documentation provided by project participant				
Ay-Yıldız 15 MW_Revalidation_v2				
VVB assessment				**Date: 22/11/2024**
PP has revised section B.2 and B.3 of the PD as per the methodological requirements with all the steps to demonstrate the baseline scenario of the project. Thus the finding has been closed.				

CAR ID	CAR 05	D.6		Date: 09/11/2024
Description of CAR				
Under section B.6.2 the unwanted box present needs to be removed, also Parameter fixed at exante is not in line with the registered PD. All the parameters are not covered in this PD. PP is requested to mention all the parameters in the PD.				
Project participant response				**Date: 13/11/2024**
The unwanted box has been removed. The reason is at the time of the registered PDD, Türkiye had not been sharing the emission factor. Hence, it had to be calculated manually. As emission is published now, there is no need for it to be calculated manually.				
Documentation provided by project participant				
Ay-Yıldız 15 MW_Revalidation_v2				
VVB assessment				**Date: 22/11/2024**
The Project Participant (PP) has updated the emission factor values as the ones calculated in the initial project description document are now outdated. With the Ministry of Energy and Natural Resources of Türkiye publishing official emission factor values in factsheets, it is necessary to adopt these updated values and revise the baseline accordingly. Furthermore, in line with ACM0002, the baseline scenario must be updated by applying Tool 11, which outlines two steps for the update process. The PP has thoroughly assessed all steps of the tool, and the same has been cross-verified by the VVB. CCIPL concludes that the original baseline is updated with the valid emission factor as mentioned in section B.4 of the PDvalid, and assessment is done as per methodological tool 'Tool for the assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period v3.0.1' /B07-a/. The assessment meets VVS Standard version 01 /B03/ and GS principle and requirements paragraph 5.1.47. /B01/ PP has assessed the baseline following UNFCCC guideline and the GS Principle and requirements /B01/ and confirms the existing baseline is still valid. The grid emission factor has been updated in compliance with the Energy and Natural Resources Ministry's publication, which includes emission factor values calculated for the year 2020. VVB has cross checked the EF through the below link. https://enerji.gov.tr//Media/Dizin/EVCED/tr/%C3%87evreVe%C4%B0klim/%C4%B0klimDe%C4%9Fi%C5%9Fikli%C4%9Fi/TUESEmisyonFktr/Belgeler/TUESEF_Bilgi_Formu.pdf The emission factor PDF file has also been checked by the VVB. Thus finding has been closed				

CAR ID	CAR 06	D.6		Date: 09/11/2024
Description of CAR				
Under section B.6.2 the unwanted box present needs to be removed, also Parameter fixed at exante is not in line with the registered PD. All the parameters are not covered in this PD. PP is requested to mention all the parameters in the PD.				
Project participant response				**Date: 13/11/2024**
The unwanted box has been removed. The reason is at the time of the registered PDD, Türkiye had not been sharing the emission factor. Hence, it had to be calculated manually. As emission is published now, there is no need for it to be calculated manually.				
Documentation provided by project participant				
Ay-Yıldız 15 MW_Revalidation_v2				
VVB assessment				**Date: 22/11/2024**
As PP has explained that at the time of the registered PP Turkiye had not published the EF while it has been published now, so PP is opting to use the published emission factor. VVB has cross checked the values from the Türkiye's Energy and Natural Sources Ministry's factsheet. While the value of the BM has been taken from GS PDD_30-05-2018.pdf. Thus, the finding has been closed.				

CAR ID	CAR 07	--		Date: 09/11/2024
Description of CAR				
Under section B.6.2 The values are inconsistent with the registered PDand also the values provided in ER sheet is inconsistent. Moreover PP is requested to clarify the approach of calculating the EF. The inconsistency in EF needs to be checked in whole PD and ER sheet.				
Project participant response				**Date: 13/11/2024**
The reason is because emission factor is updated in Türkiye, and for the renewal of crediting periods the CM value should be updated and for the third crediting period the BM value of the second crediting period should be used. The current emission factor has been shared.				
Documentation provided by project participant				
Ay-Yıldız 15 MW_Revalidation_v2 TUESEF_Bilgi_Formu				
VVB assessment				**Date: 22/11/2024**
PP has updated the value of the EF and the CM factor of the project and provided the documents to cross the values. Thus, the finding has been closed.				

Table 2. CLs from this validation

CL ID	CL 01	Section no.	D.6	Date: 09/11/2024
Description of CL				
Under section B.6.2, in the table for SDG 8, values applied is mentioned as N/A. PP is requested to justify this non applicability. Moreover for the table “Principle 9.10 HCV Areas and Critical Habitats” the coloumn for unin can not be left blank.				
Project participant response				**Date: 13/11/2024**
Sections have been updated.				
Documentation provided by project participant				
Ay-Yıldız 15 MW_Revalidation_v2				
VVB assessment				**Date: 22/11/2024**
PP has updated the column of the table for the SDG 8 under section B.6.3 with the value of 5 employments. Thus, the finding has been closed.				

CL ID	CL 02	Section no.	D.6	Date: 09/11/2024
Description of CL				
Under section B.7.3, PP has mentioned the dates of calibration of meters, however it is requested to provide information about the frequency of calibration required and the source for the same.				
Project participant response				**Date: 13/11/2024**
The information about the frequency of calibration which their sources as footnotes have been added.				
Documentation provided by project participant				
Ay-Yıldız 15 MW_Revalidation_v2				
VVB assessment				**Date: 22/11/2024**
PP has provided the complete information, and the source used for the frequency if calibration of the meters used in the project. The same has been updated under section B.7.3 of the updated PD . Thus, the finding has been closed.				

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